

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2015/2016

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**BIT 2103 : INTRODUCTION TO COMPUTER APPLICATION**

**DATE: APRIL 2016 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER**

**TWO QUESTIONS.**

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**QUESTION ONE (30 MARKS)**

(a) Define the following terms as used in computer science: [4 marks]

(i) Internetwork.

(ii) User.

(iii) Data processing.

(iv) Programs.

(b) Briefly explain five factors that can be used to determine the type of computer.

[3 marks]

(c) Distinguish between the following organizations: [2 marks]

(i) Assemblers and compliers.

(ii) Browsers and mail management.

(d) Explain the features of computer system showing two possible features. [2 marks]

(e) Technology is the basis of computer classification, based on this, explain briefly the difference between the first three computer generations. [3 marks]

(f) Define the following as used in computer based communication: [4 marks]

(i) Server.

(ii) Internet.

(iii) E-commerce.

(iv) Search engine.

(g) Discuss the importance of intranets within an organization. [3 marks]

(h) List five advantages of a computerized system over a manual system. [3 marks]

(i) Briefly describe terms “Analogue” and digital company. [2 marks]

(j) Distinguish between: [4 marks]

(i) Click and right click.

(ii) Double clicking and dragging.

**QUESTION TWO (20 MARKS)**

(a) With the aid of a diagram, outline the CPO chipset components and describe their functions. [6 marks]

(b) Briefly explain the following terms associated with internet: [4 marks]

(i) Chat.

(ii) Social network.

(iii) Website.

(iv) Gateway.

(c) Explain the characteristics of the third and fourth generation application development. [4 marks]

(d) Explain how you would perform the following: [3 marks]

(i) Make your typed text bold or italic.

(ii) Create three columns in a typed text.

(iii) Insert a word art with some text.

(e) Explain the major factors which have led to low usage of internet in the rural areas in Kenya. [3 marks]

**QUESTION THREE (20 MARKS)**

(a) With the aid of a suitable diagram, describe the functional features of a hard-disk drive. [4 marks]

(b) Discuss any three factors you should consider when purchasing computer software.

[3 marks]

(c) Explain how you would use the mail merge utility merge to write a letter to multiple recipients. [5 marks]

(d) Distinguish between each: [6 marks

(i) RAM and ROM.

(ii) Hardware and software.

(iii) Data and users.

**QUESTION FOUR (20 MARKS)**

(a) When purchasing products from a supermarket, your daughter saw a device which was scanning each of them. Being the anxious type, she enquired what it was and why it was being used. Briefly provide the explanation you would give her.

[4 marks]

(b) Explain the functions of the following keys on the keyboard: [6 marks]

(i) Caps lock.

(ii) Control keys.

(iii) Function key.

(c) EEPROM is a better chipset for keeping firmware data than PROM chips. Discuss.

[4 marks]

(d) Briefly explain the functions of the following within a computer system:

[2 marks]

(i) Register.

(ii) Data bus.